

²⁸⁴F1

The discovery of ²⁸⁴F1 was reported in 2015 by Utyonkov et al. in “Experiments on the synthesis of superheavy nuclei ²⁸⁴F1 and ²⁸⁵F1 in the ^{239,240}Pu+⁴⁸Ca reactions” (2015Ut02). It was produced in fusion evaporation reactions induced by ⁴⁸Ca beams from the U400 cyclotron of the Flerov Laboratory of Nuclear Reactions, JINR in Dubna, Russia. Evaporation residues were implanted in an array of silicon detectors at the end of the Dubna Gas Filled Recoil Separator which also recorded subsequently emitted α -particles and fission fragments. “A new spontaneously fissioning (SF) isotope ²⁸⁴F1 was produced for the first time in the ²⁴⁰Pu + ⁴⁸Ca (250 MeV) and ²³⁹Pu + ⁴⁸Ca (245 MeV) reactions.”

Adapted from reference (2016Th03)

2015Ut02 V. K. Utyonkov, N. T. Brewer, Yu. Ts. Oganessian, K. P. Rykaczewski *et al.*, Phys. Rev. C **92**, 034609 (2015).

2016Th03 M. Thoennessen, Int. J. Mod. Phys. E **25**, 1630004 (2016).

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